Supplemental

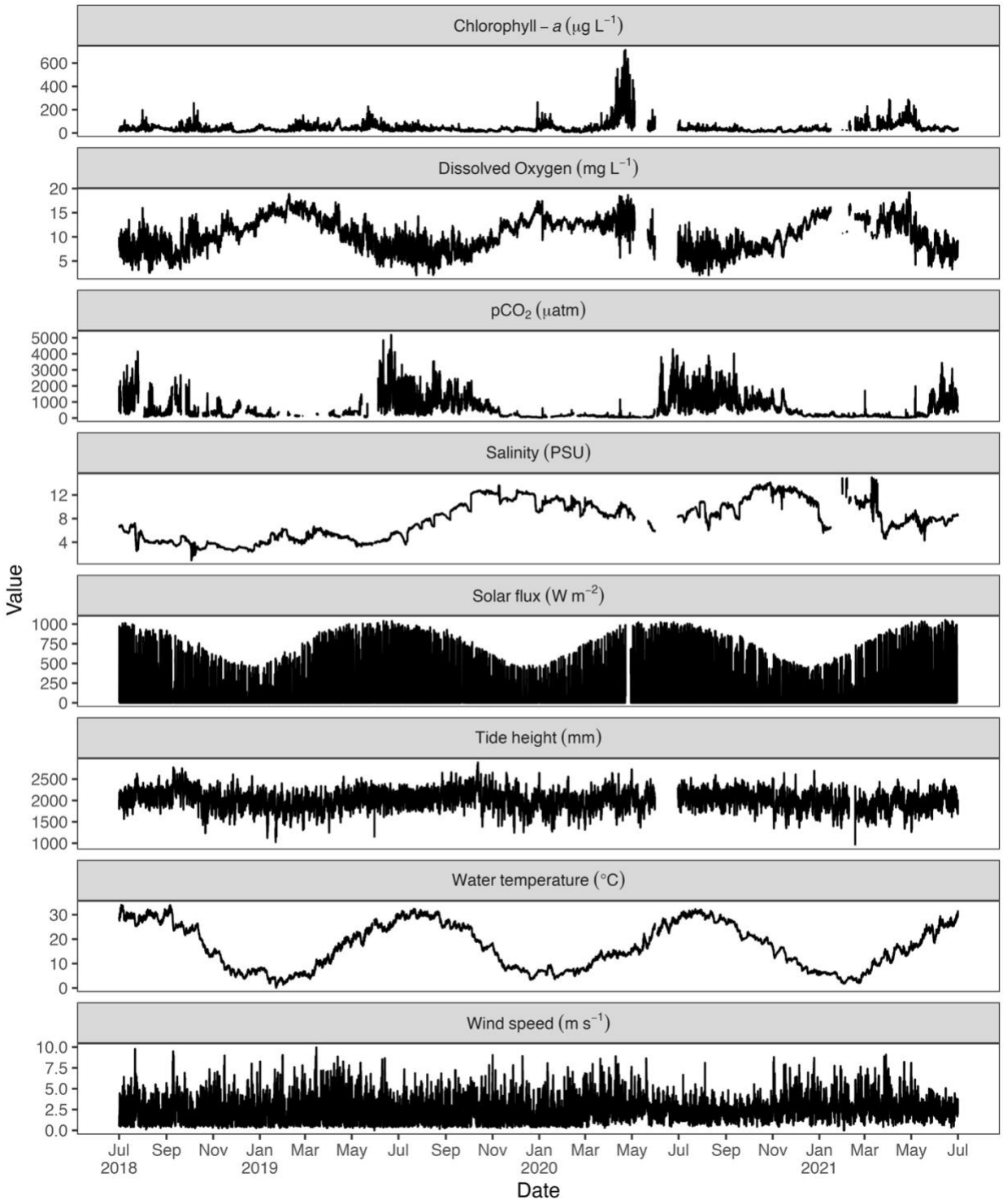

Fig. S1. Plot of all raw values from environmental variables for the same time period as CO_2 flux (July 2018–July 2021).

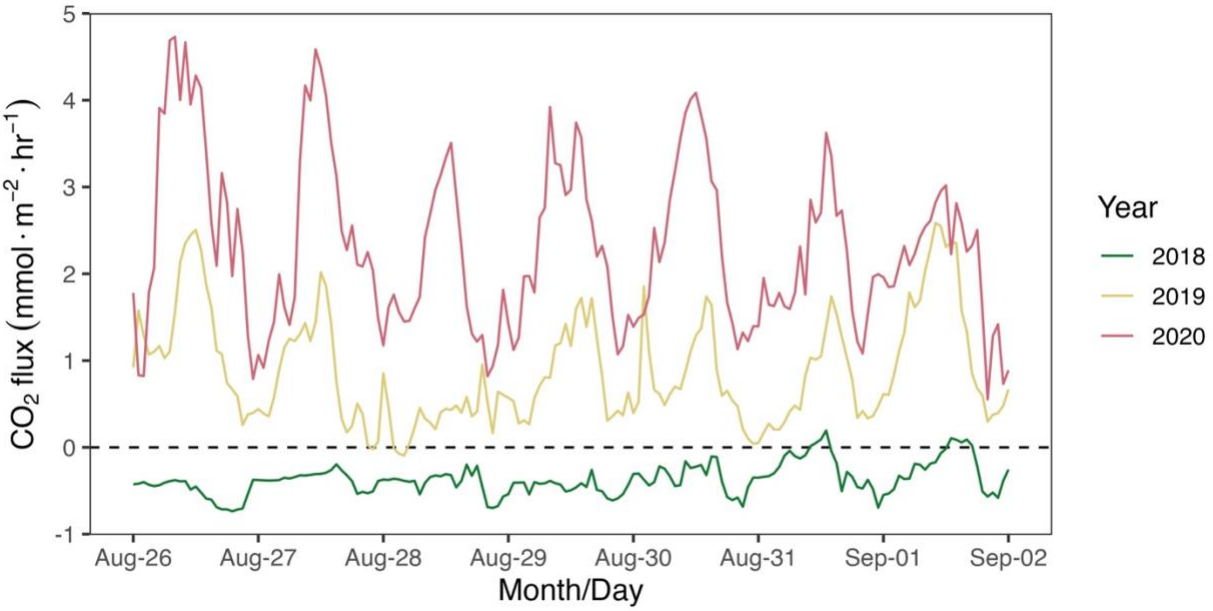

Fig. S2. Hourly CO_2 flux estimates for the week of August 26 to Sept 2 where CO_2 flux status differs among years.

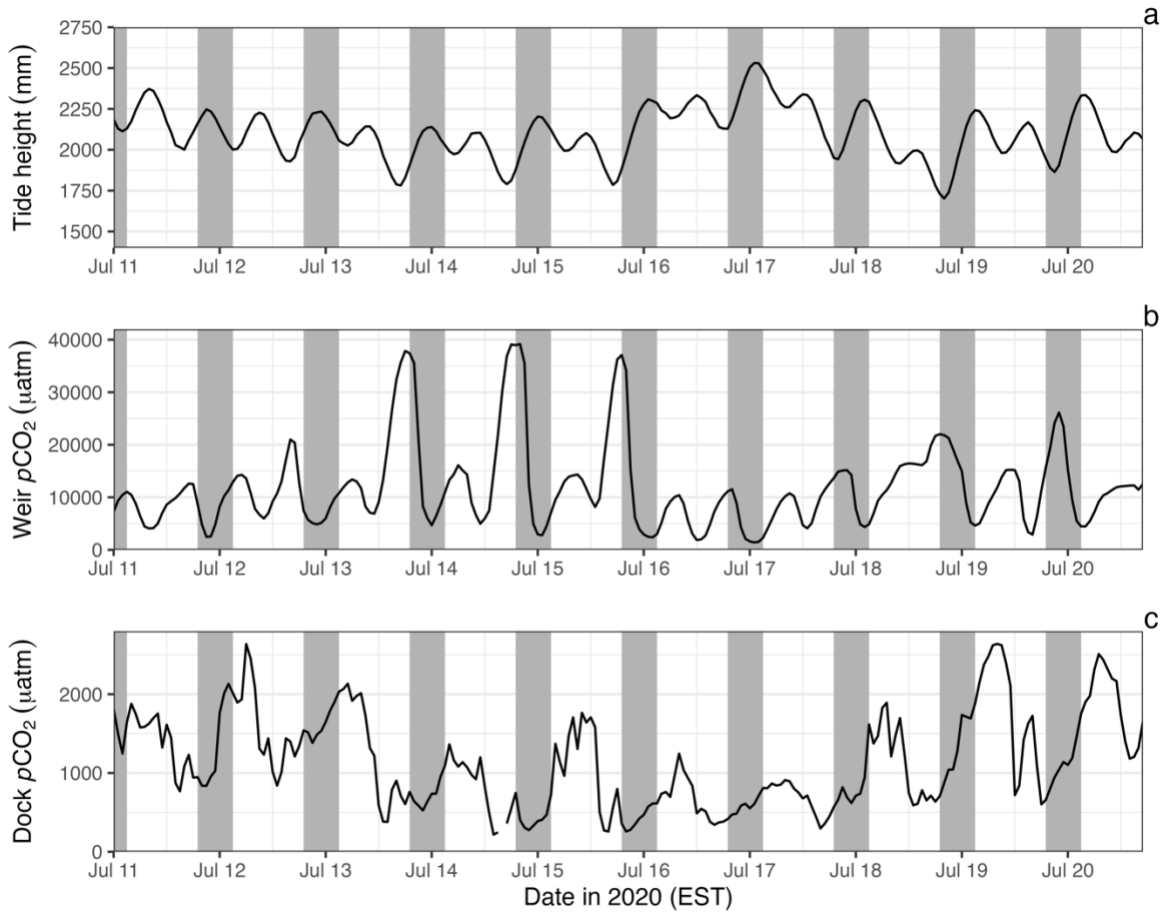

Fig. S3. Simultaneous pCO_2 measurements (1-hour intervals) from SERC dock (panel c) and the mouth of the single tidal creek that drains the Kirkpatrick Marsh (panel b) (11-20 Jul 2020) indicate that dissolved CO_2 varies at the dock according to a day/night cycle while CO_2 in the marsh tidal creek rises and falls inversely with tide height (panel a), indicating outwelling of marsh derived CO_2 (e.g., root respiration, pore and groundwater).